

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460-0001

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DATA MATRIX

Date: January 24, 2017			EPA Reg no./ File Symbol: 59639-97		Total Pages = 50
Applicant's/ Registrant's Name & VALENT U.S.A. CORPORATION 1600 RIVIERA AVENUE SUITE, WALNUT CREEK, CA 94596-8025			Product: FLUMIOXAZIN TECHNICAL		
Ingredient: FLUMIOXAZIN					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
61-1	Product Identity and Disclosure of Ingredients for the Technical S-53482	42684901	Valent U.S.A. Corporation	OWN	
61-1	S-53482 WP Herbicide Product Identity and Disclosure of Ingredients.	42684904	Valent U.S.A. Corporation	OWN	
61-2	S-53482 WP Herbicide Description of Beginning Materials and Manufacturing Process	42684904	Valent U.S.A. Corporation	OWN	
61-2(a)	Description of Beginning Materials and Manufacturing Process for the Technical S-53482 and The Description of Formation of Impurities	42684901	Valent U.S.A. Corporation	OWN	
61-3	S-53482 WP Herbicide Discussion of the Formation of Impurities	42684904	Valent U.S.A. Corporation	OWN	
62-1 62-2	Preliminary Analysis of Product Samples of Flumioxazin (S-53482) Technical Grade -- Revised MRID #42684902 Certification of Ingredient Limits of Flumioxazin (S-53482) Technical Grade -- Revised MRID #42684902	44295001	Valent U.S.A. Corporation	OWN	
62-1	Preliminary Analysis of Product Samples of S-53482 Technical Grade	42684902	Valent U.S.A. Corporation	OWN	
62-2	Certification of Ingredient Limits of S-53482 Technical Grade	42684902	Valent U.S.A. Corporation	OWN	
62-3	Analytical Method for the Determination of S-53482 in S-53482 50 WP	42684904	Valent U.S.A. Corporation	OWN	
62-3	Analytical Methods to Verify Certified Limits of S-53482 Technical Grade	42684902	Valent U.S.A. Corporation	OWN	
63-02	Determination of Physical Properties of V-53482 50 WP.	42684904	Valent U.S.A. Corporation	OWN	
63-02	Physical and Chemical Characteristics of V-53482 Technical	42684903	Valent U.S.A. Corporation	OWN	

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Ingredient: FLUMIOXAZIN					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
63-02	S-53482 50WDG Determination of Color Odor and Physical State.	42684904	Valent U.S.A. Corporation	OWN	
63-03	Determination of Physical Properties of V-53482 50 WP.	42684904	Valent U.S.A. Corporation	OWN	
63-03	Physical State Determination of S-53482.	42684903	Valent U.S.A. Corporation	OWN	
63-03	S-53482 50WDG Determination of Color Odor and Physical State.	42684904	Valent U.S.A. Corporation	OWN	
63-04	Determination of Physical Properties of V-53482 50 WP.	42684904	Valent U.S.A. Corporation	OWN	
63-04	Odor Determination of S-53482.	42684903	Valent U.S.A. Corporation	OWN	
63-04	S-53482 50WDG Determination of Color, Odor, and Physical State.	42684904	Valent U.S.A. Corporation	OWN	
63-05	Melting Point/Melting Range Determination of S-53482.	42684903	Valent U.S.A. Corporation	OWN	
63-07	Density Determination of S-53482.	42684903	Valent U.S.A. Corporation	OWN	
63-07	Determination of Physical Properties of V-53482 50 WP.	42684904	Valent U.S.A. Corporation	OWN	
63-07	S-53482 50WDG Determination of Bulk Density.	42684904	Valent U.S.A. Corporation	OWN	
63-08	Organic Solvent Solubility Determination of S-53482.	42684903	Valent U.S.A. Corporation	OWN	
63-08	Water Solubility of S-53482.	42684903	Valent U.S.A. Corporation	OWN	
63-10	Preliminary Test for the Determination of Dissociation Constant of S- 53482.	42684903	Valent U.S.A. Corporation	OWN	

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Ingredient: FLUMIOXAZIN					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
63-11	Partition Coefficient of S-53482.	42684903	Valent U.S.A. Corporation	OWN	
63-12	Determination of Physical Properties of V-53482 50 WP.	42684904	Valent U.S.A. Corporation	OWN	
63-12	pH of S-53482 50 WDG.	42684904	Valent U.S.A. Corporation	OWN	
63-12	pH Value Determination of S-53482.	42684903	Valent U.S.A. Corporation	OWN	
63-13	Stability of S-53482 Technical Grade	42684903	Valent U.S.A. Corporation	OWN	
63-14	Physical and Chemical Characteristics of V-53482 Technical Oxidation and Reduction Potential Waiver Request.	42684903	Valent U.S.A. Corporation	OWN	
63-14	S-53482 (50WDG) Determination of Oxidation Reduction.	42684904	Valent U.S.A. Corporation	OWN	
63-16	S-53482 50WDG Determination of Impact Explodability.	42684904	Valent U.S.A. Corporation	OWN	
63-16	S-53482 - Determination of Impact Explodability.	42684903	Valent U.S.A. Corporation	OWN	
63-17	Determination of Chemical Storage Stability of V-53482 WDG Herbicide	44295002	Valent U.S.A. Corporation	OWN	
63-17	Determination of Chemical Storage Stability of V-53482 WP Herbicide	44295003	Valent U.S.A. Corporation	OWN	
63-17	Storage Stability of S-53482 50 WDG at Ambient Temperature for One Year.	42684904	Valent U.S.A. Corporation	OWN	
63-17	Storage Stability of S-53482 Technical Grade at Ambient Temperature for One Year.	42684903	Valent U.S.A. Corporation	OWN	

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Ingredient: FLUMIOXAZIN					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
63-20	Corrosion Characteristics of S-53482 50 WDG.	42684904	Valent U.S.A. Corporation	OWN	
63-20	Corrosion Characteristics of S-53482 Technical Grade	42684903	Valent U.S.A. Corporation	OWN	
70-1-SS	Clomazone: Analysis of Potential Direct and Indirect Effects on Threatened and Endangered Species	47647401	FIFRA Endangered Species Task Force	OWN	
70-1-SS	Federal Endangered Species Task Force (FESTF) Information Management System (IMS): Beta-Tested IMS 2.0 and Access to NatureServe Data. Final Report	46486301	FIFRA Endangered Species Task Force (FESTF)	OWN	
70-1-SS	The FIFRA Endangered Species Task Force Information Management System (IMS): Documentation of Structure and Function of IMS 1.1	46325901	The FIFRA Endangered Species Task Force	OWN	
70-1-SS	NatureServe Data Evaluation and Review	47260101	FIFRA Endangered Species Task Force	OWN	
71-1	An Acute Oral Toxicity Study with the Bobwhite.	42684945	Valent U.S.A. Corporation	OWN	
71-2	V-53482: A Dietary LC50 Study with the Mallard.	42684946	Valent U.S.A. Corporation	OWN	
71-2	V-53482: A Dietary LC50 Study with the Northern Bobwhite.	42684947	Valent U.S.A. Corporation	OWN	
71-4	V-53482: A One-Generation Reproduction Study with the Bobwhite (<i>Colinus virginianus</i>).	44295006	Valent U.S.A. Corporation	OWN	
71-4	V-53482: A One Generation Reproduction Study with the Mallard (<i>Anas platyrhynchos</i>)	44295005	Valent U.S.A. Corporation	OWN	
72-1	The Acute Toxicity of S-53482 to Bluegill (<i>Lepomis macrochirus</i>).	42684949	Valent U.S.A. Corporation	OWN	
72-1	The Acute Toxicity of S-53482 to Rainbow Trout (<i>Salmo gairdneri</i>).	42684948	Valent U.S.A. Corporation	OWN	

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Ingredient: FLUMIOXAZIN					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
72-1	EEC's for Flumioxazin in Pond Water Using the PRZM and EXAMS Computer Models MRID 42884001 (Amended Report 1)	42985501	Valent U.S.A. Corporation	OWN	
72-1	Toxicity of S-53482 T.G. to Rainbow Trout (<i>Oncorhynchus mykiss</i>) After 21 Days of Exposure Under Flow-Through Conditions	44295007	Valent U.S.A. Corporation	OWN	
72-2	A 48-Hour Flow-Through Acute Toxicity Test with the Cladoceran (<i>Daphnia magna</i>) MRID No. 42884950 Response to EPA Review.	43066501	Valent U.S.A. Corporation	OWN	
72-2	S-53482: A 48-Hour Flow-Through Acute Toxicity Test With the Cladoceran (<i>Daphnia magna</i>).	42684950	Valent U.S.A. Corporation	OWN	
72-3	EEC's for FLUMIOXAZIN Predicted in Pond Water Using the PRZM and EXAMX Computer Models.	42884001	Valent U.S.A. Corporation	OWN	
72-3	V-53482 Technical - Acute Toxicity to Eastern Oyster (<i>Crassostrea virginica</i>) Under Flow-Through Conditions.	44295008	Valent U.S.A. Corporation	OWN	
72-3	V-53482 Technical - Acute Toxicity to Mysid Shrimp (<i>Mysidopsis bahia</i>) Under Flow-Through Conditions	44295009	Valent U.S.A. Corporation	OWN	
72-3	V-53482 Technical - Acute Toxicity to Sheepshead Minnow (<i>Cyprinodon variegatus</i>) Under Flow-Through Conditions.	44295010	Valent U.S.A. Corporation	OWN	
72-4	14C-S-53482: A Flow-Through Life Cycle Toxicity Test With The Cladoceran (<i>Daphnia magna</i>)	44295011	Valent U.S.A. Corporation	OWN	
72-4	Early Life-Stage Toxicity Test of S-53482 with Rainbow Trout (<i>Oncorhynchus mykiss</i>)	44295012	Valent U.S.A. Corporation	OWN	
72-4	V-53482 TGAI (Flumioxazin) - The Chronic Toxicity To Mysids (<i>Mysidopsis bahia</i>) Under Flow-Through Conditions	44295013	Valent U.S.A. Corporation	OWN	

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
81-1	Acute Oral Toxicity Study of S-53482 in Rats.	42684911	Valent U.S.A. Corporation	OWN	
81-1	Acute Oral Toxicity to Rats of V-53482 50 WDG.	42684912	Valent U.S.A. Corporation	OWN	
81-2	Acute Dermal Toxicity Study of S-53482 in Rats.	42684913	Valent U.S.A. Corporation	OWN	
81-2	Acute Dermal Toxicity to Rats of V-53482 50 WDG.	42684914	Valent U.S.A. Corporation	OWN	
81-3	Acute Inhalation Toxicity Study of S-53482 in Rats.	42684915	Valent U.S.A. Corporation	OWN	
81-3	Addendum to "Acute Inhalation Toxicity Study of S-53482 in Rats" MRID #42684915	43935501	Valent U.S.A. Corporation	OWN	
81-3	V-53482 50 WDG Acute Inhalation Toxicity in Rats 4-Hour Exposure. 3/10/92.	42684916	Valent U.S.A. Corporation	OWN	
81-3	V-53482 50 WDG: Acute Inhalation Toxicity in Rats 4-Hour Exposure.	42884002	Valent U.S.A. Corporation	OWN	
81-3	Valent USA's Response to EPA's Requirement for Dust/Mist Filter Respirator on the Label for V-53482 WP Herbicide	44295015	Valent U.S.A. Corporation	OWN	
81-4	Eye Irritation to the Rabbit of V-53482 50WDG.	42684918	Valent U.S.A. Corporation	OWN	
81-4	Primary Eye and Skin Irritation Tests with S-53482 in Rabbits.	42684917	Valent U.S.A. Corporation	OWN	
81-5	Skin Irritation to the Rabbit of V-53482 50WDG.	42684919	Valent U.S.A. Corporation	OWN	
81-6	Skin Sensitisation in the Guinea-Pig of V-53482 50WDG.	42684920	Valent U.S.A. Corporation	OWN	

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Ingredient: FLUMIOXAZIN					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
81-6	Skin Sensitization Test with S-53482 in Guinea Pigs (Maximization Method).	42684921	Valent U.S.A. Corporation	OWN	
82-1	13-week Subchronic Oral Toxicity Study of S-53482 Pure in Rats.	42684923	Valent U.S.A. Corporation	OWN	
82-1	Four-week Subacute Toxicity Study of S-53482 by Dietary Administration in Mice	44307301	Valent U.S.A. Corporation	OWN	
82-1	Three-month Oral Toxicity Study of S-53482 in Dogs. (Amended on 1/11/93).	42684924	Valent U.S.A. Corporation	OWN	
82-1	Three-month Subacute Toxicity Study of S-53482 by Dietary Administration in Rats.	42684922	Valent U.S.A. Corporation	OWN	
82-1(a)	Revised 13-Week Subchronic Oral Toxicity Study of S-53482 Pure in Rats. MRID # 426849-23.	43935502	Valent U.S.A. Corporation	OWN	
82-1(a)	Stability Test of S-53482 Pure (SB-1855) in Rodent Diet MRID #42684923	43935504	Valent U.S.A. Corporation	OWN	
82-1(a)	Stability Test of S53482 Pure (SB-1855) in Capsule MRID # 42684924	43935505	Valent U.S.A. Corporation	OWN	
82-2	21-Day Dermal Toxicity Study in Rats with S-53482 (Final Report)	44295016	Valent U.S.A. Corporation	OWN	
83-1(b)	One-year Oral Toxicity Study of S-53482 in Dogs (Amended Report)	44295017	Valent U.S.A. Corporation	OWN	
83-2	Oncogenicity Study of S-53482 By Dietary Administration in Mice. (Vol 1-10)	44295018	Valent U.S.A. Corporation	OWN	
83-3	Amended Report: Placental Transfer of S-53482 in Rats and Rabbits.	42884007	Valent U.S.A. Corporation	OWN	
83-3	Critical Period for Developmental Toxicity Induced by S-53482 in Rats	42884006	Valent U.S.A. Corporation	OWN	
83-3	Discussion of the Developmental Toxicity in Rats Associated with Exposure to V-53482 Technical.	42684933	Valent U.S.A. Corporation	OWN	

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Ingredient: FLUMIOXAZIN					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
83-3	A Discussion of the Mechanistic Research Conducted on the Developmental Toxicity of V-53482 Technical	42884003	Valent U.S.A. Corporation	OWN	
83-3	Effects of S-53482, an N-phenylimide Herbicide, on Protoporphyrin IX Accumulation in Embryos I. Species Difference in Protoporphyrin IX Accumulation Between Rat and Rabbit Embryos	44295021	Valent U.S.A. Corporation	OWN	
83-3	Effects of S-53482, an N-phenylimide Herbicide, on Protoporphyrin IX Accumulation in Embryos II. Compound Difference in Protoporphyrin IX Accumulation in Rat Embryos	44295024	Valent U.S.A. Corporation	OWN	
83-3	Effects of S-53482, an N-phenylimide Herbicide, on Protoporphyrin IX Accumulation in Embryos III. Critical Period for Protoporphyrin IX Accumulation in Embryos	44295019	Valent U.S.A. Corporation	OWN	
83-3	Effects of SB Series Herbicides on Protoporphyrinogen Oxidase Activity in Rat and Rabbit Liver Mitochondria	44295022	Valent U.S.A. Corporation	OWN	
83-3	Histopathological Study of S-53482 Developmental Toxicity in Rat and Rabbit Embryos Following Oral Administration to Dams at 1000 mg/kg on Day 12 of Gestation	44295020	Valent U.S.A. Corporation	OWN	
83-3	Inhibition of Protoporphyrinogen Oxidase Activity by S-53482 in Rat, Rabbit and Human Liver	44295027	Valent U.S.A. Corporation	OWN	
83-3	Mechanism of Hematotoxicity of S-53482 by Dietary Administration in Rats	44295023	Valent U.S.A. Corporation	OWN	
83-3	Pathogenesis of Developmental Effects Produced by S-53482, an N-phenylimide Herbicide, in Rats	44295025	Valent U.S.A. Corporation	OWN	
83-3	The Percutaneous Absorption of [phenyl-14C]S-53482 in Female Rats and the Comparison of 14C-Blood Levels Between Dermal Application and Oral Application	42684932	Valent U.S.A. Corporation	OWN	

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Ingredient: FLUMIOXAZIN					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
83-3	The Percutaneous Absorption of [phenyl-14C]S-53482 in Pregnant Rats.	42684931	Valent U.S.A. Corporation	OWN	
83-3	Placental Transfer of S-53482 in Rats and Mice.	44307302	Valent U.S.A. Corporation	OWN	
83-3	Preliminary Teratology Study of SB-1297 SB-1335 or SB-1855 Administered Orally to Rats.	42684930	Valent U.S.A. Corporation	OWN	
83-3	Protoporphyrin Oxidase Activity in Rat and Rabbit Tissues: Inhibition by Three Test Chemicals	42884008	Valent U.S.A. Corporation	OWN	
83-3	Range-Finding Teratology Study in Rabbits with S-53482.	42684927	Valent U.S.A. Corporation	OWN	
83-3	Range-Finding Teratology Study of S-53482 Administered Dermally to Rats.	42684929	Valent U.S.A. Corporation	OWN	
83-3	Summary Report: Effects of N-Phenylimide Herbicide on Protoporphyrin IX Accumulation in Embryos	42884005	Valent U.S.A. Corporation	OWN	
83-3	Summary Report: Histopathological Study of S-53482 Developmental Toxicity in Rats and Rabbits: Effect of S-53482 Administered at 1000 mg/ kg on Day 12 of Gestation	42884004	Valent U.S.A. Corporation	OWN	
83-3	Teratology Study in Rabbits with S-53482	42684928	Valent U.S.A. Corporation	OWN	
83-3	Teratology Study of S-53482 Administered Orally in Rats	42684925	Valent U.S.A. Corporation	OWN	
83-3	Teratology Study of V-53482 Administered Dermally to Rats	42684926	Valent U.S.A. Corporation	OWN	
83-3 (870.3700)	An Update of a Discussion of the Mechanistic Research Conducted on the Developmental Toxicity of V-53482 Technical	44295026	Valent U.S.A. Corporation	OWN	

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Ingredient: FLUMIOXAZIN					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
83-3(a)	Addendum to "Teratology Study of S53482 Administered Dermal to Rats" MRID #42684926	43935507	Valent U.S.A. Corporation	OWN	
83-3(a)	Addendum to "Teratology Study of S53482 Administered Orally to Rats" MRID #42684925	43935508	Valent U.S.A. Corporation	OWN	
83-3(a)	Response to EPA's Selection of the Development NOELs for S53482 in Rats MRID # 42684925 and 42684926	43935506	Valent U.S.A. Corporation	OWN	
83-4	Dosage-Range Study of S-53482 Administered Orally in the Diet to Crl:CD BR VAF/Plus Rats (Pilot Study).	42684936	Valent U.S.A. Corporation	OWN	
83-4	Dosage-Range Study of S-53482 Administered Orally in the Diet to Crl: CD (SD)BR Rats (Pilot Study).	42684934	Valent U.S.A. Corporation	OWN	
83-4	Reproductive Effects of S-53482 Administered Orally in Feed to Crl:CD BR VAF/Plus Rats.	42684935	Valent U.S.A. Corporation	OWN	
83-5	Combined Chronic Toxicity and Oncogenicity Study of S-53482 by Dietary Administration in Rats	44295028	Valent U.S.A. Corporation	OWN	
83-5	Combined Chronic Toxicity and Oncogenicity Study of S-53482 by Dietary Administration in Rats. (12-month interim report).	42684937	Valent U.S.A. Corporation	OWN	
84-2	In Vitro Chromosomal Aberration Test of S-53482. 8/19/88	42684939	Valent U.S.A. Corporation	OWN	
84-2	In vivo Chromosomal Aberration Test of S-53482 in Rat Bone Marrow Cells.	42684940	Valent U.S.A. Corporation	OWN	
84-2	Reverse Mutation Test of S-53482 in Salmonella typhimurium and Escherichia coli.	42684938	Valent U.S.A. Corporation	OWN	
84-4	In vivo/in vitro Unscheduled DNA Synthesis (UDS) Assay of S-53482 in Rat Hepatocytes.	42684941	Valent U.S.A. Corporation	OWN	
84-4	Micronucleus Test of S-23031 and S-53482. 8/19/88	42684942	Valent U.S.A. Corporation	OWN	

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Applicant's/ Registrant's Name & VALENT U.S.A. CORPORATION 1600 RIVIERA AVENUE SUITE, WALNUT CREEK, CA 94596-8025			Product: FLUMIOXAZIN TECHNICAL		
Ingredient: FLUMIOXAZIN					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
85-1	Metabolism of [Phenyl 14C]-S-53482 in Rats.	42684943	Valent U.S.A. Corporation	OWN	
85-1	Revised Metabolism of [phenyl-14C]S-53482 in Rats MRID #42684943	43935503	Valent U.S.A. Corporation	OWN	
85-2	The Percutaneous Absorption of [14C]-S-53482 in Male Rats.	42684944	Valent U.S.A. Corporation	OWN	
122-1	Summary of Data and Application Submitted to Support an Experimental Use Permit for V-53482 WP Herbicide and Temporary Tolerance for Flumioxazin (V-53482)	ADMIN	Valent U.S.A. Corporation	OWN	
123-1	Tier II Seedling Emergence Nontarget Phytotoxicity Study Using Flumioxazin	44295029	Valent U.S.A. Corporation	OWN	
123-1	Tier II Vegetative Vigor Nontarget Phytotoxicity Study Using Flumioxazin	44295030	Valent U.S.A. Corporation	OWN	
123-2	V-53482 (Flumioxazin) - 5-Day toxicity to the Freshwater Blue-Green Alga (Anabaena flos-aquae)	44295034	Valent U.S.A. Corporation	OWN	
123-2	V-53482 (Flumioxazin) - Toxicity to the Duckweed (Lemna gibba)	44295035	Valent U.S.A. Corporation	OWN	
123-2	V-53482 (Flumioxazin) - Toxicity to the Freshwater Diatom (Navicula pelliculosa)	44295032	Valent U.S.A. Corporation	OWN	
123-2	V-53482 (Flumioxazin) - Toxicity to the Freshwater Green Alga (Selenastrum capricornutum)	44295031	Valent U.S.A. Corporation	OWN	
123-2	V-53482 (Flumioxazin) - Toxicity to the Marine Diatom (Skeletonema costatum)	44295033	Valent U.S.A. Corporation	OWN	
141-1	An Acute Contact Toxicity Study with the Honey Bee.	42684951	Valent U.S.A. Corporation	OWN	
161-1	Hydrolysis of [Ph-14C] S-53482 in Buffered Aqueous Solutions.	42697501	Valent U.S.A. Corporation	OWN	

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Ingredient: FLUMIOXAZIN					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
161-1	Hydrolysis of [THP-14C] S-53482 in Buffered Aqueous Solutions.	42684905	Valent U.S.A. Corporation	OWN	
161-2	Artificial Sunlight Photodegradation of [Phe-14C]-S-53482 in a Buffered Aqueous Solution.	44295036	Valent U.S.A. Corporation	OWN	
161-2	Artificial Sunlight Photodegradation of [THP-14C]-S-53482 in a Buffered Aqueous Solution.	44295037	Valent U.S.A. Corporation	OWN	
161-2	Photodegradation of [14C]Flumioxazin in Buffer	45914601	Valent U.S.A. Corporation	OWN	
161-3	Artificial Sunlight Photodegradation of [THP - 14C]-S-53482 on Soil	44295039	Valent U.S.A. Corporation	OWN	
161-3	Artificial Sunlight Photodegradation of [Phe-14C]-S-53482 on Soil.	44295038	Valent U.S.A. Corporation	OWN	
162-1	Aerobic Soil Metabolism of 14C-S-53482.	42684906	Valent U.S.A. Corporation	OWN	
162-1	Aerobic Soil Metabolism of [THP-14C]-S-53482	42884009	Valent U.S.A. Corporation	OWN	
162-1	Half-Life of Flumioxazin in Four Soils Under Laboratory Conditions	44295040	Valent U.S.A. Corporation	OWN	
162-3	Anaerobic Aquatic Metabolism of [PH-14C] Flumioxazin and [THP-14C] Flumioxazin	45914602	Valent U.S.A. Corporation	OWN	
162-3	An Anaerobic Aquatic Soil Metabolism Study with [14C] S-53482 (Flumioxazin)	44295041	Valent U.S.A. Corporation	OWN	
163-1	Adsorption and Desorption of [Phenyl-14C]-APF in Soil	45309201	Valent USA Corporation	OWN	
163-1	Adsorption and Desorption of Tetrahydrophthalic Acid (THPA) to Soil	45309202	VALENT USA Corporation	OWN	
163-1	Column Leaching Characteristics of [Phe-14-C]-V-53482 in Typical Agricultural Soils (Aged Soils).	42684909	Valent U.S.A. Corporation	OWN	

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Ingredient: FLUMIOXAZIN					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
163-1	Column Leaching Characteristics of [Phe-14C]-V-53482 in Typical Agricultural Soils (Unaged Study).	42684907	Valent U.S.A. Corporation	OWN	
163-1	Column Leaching Characteristics of [Phe-14C]-V-53482 on Soil (Part 2)	42884010	Valent U.S.A. Corporation	OWN	
163-1	Column Leaching Characteristics of [THP-14C]-V-53482 in Typical Agricultural Soils (Unaged Soils).	42684908	Valent U.S.A. Corporation	OWN	
164-1	Environmental Fate Summary Addressing Potential Mobility Issues	44295048	Valent U.S.A. Corporation	OWN	
164-1	Field Dissipation Study with V-53482 WDG Herbicide in Iowa	44295046	Valent U.S.A. Corporation	OWN	
164-1	Field Dissipation Study with V-53482 WDG Herbicide in Mississippi	44295045	Valent U.S.A. Corporation	OWN	
164-1	Soil Dissipation of [Phenyl-14C]Flumioxazin Under Actual Field Conditions in Soybeans in Indiana	44295047	Valent U.S.A. Corporation	OWN	
164-1	Soil Dissipation of Phenyl-14C-Flumioxazin Under Field Conditions in North Carolina	44295043	Valent U.S.A. Corporation	OWN	
164-1	Terrestrial Field Dissipation of Flumioxazin in Established Walnuts	45375502	Valent U.S.A. Corporation	OWN	
164-1	Terrestrial Field Dissipation Study with V-53482 WP Herbicide On No-Till Ground in Illinois	44295044	Valent U.S.A. Corporation	OWN	
164-1	Terrestrial Field Soil Dissipation of Chateau Herbicide (Flumioxazin) on Bare Ground in California	48402406	Valent U.S.A. Corporation	OWN	
165-1	A Confined Rotational Crop Study iwth [14C-THP]-V-53482 Using Lettuce, Carrots and Wheat	44295049	Valent U.S.A. Corporation	OWN	
165-1	A Confined Rotational Crop Study with [14C]V-53482 Using Lettuce Carrots and Wheat.	42884011	Valent U.S.A. Corporation	OWN	
165-4	Bioaccumulation in Fish of V-53482 Waiver Request.	42684910	Valent U.S.A. Corporation	OWN	

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Ingredient: FLUMIOXAZIN					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
171-2	Summary of Data and Application Submitted to Support an Experimental Use Permit for V-53482 WP Herbicide and Temporary Tolerance for Flumioxazin (V-53482)	ADMIN	Valent U.S.A. Corporation	OWN	
171-2	Summary of Data and Application Submitted to Support an Experimental Use Permit for V-53482 WP Herbicide for Non-Crop Use to Perform a Mixer/ Loader and Applicator Exposure Study.	ADMIN	Valent U.S.A. Corporation	OWN	
171-3	Summary of Data and Application Submitted to Support an Experimental Use Permit for V-53482 for V-53482 WP Herbicide and Temporary Tolerance for Flumioxazin (V-53482)	ADMIN	Valent U.S.A. Corporation	OWN	
171-3	Summary of Data and Application Submitted to Support an Experimental Use Permit for V-53482 WP Herbicide for Non-Crop Use to Perform a Mixer/ Loader and Applicator Exposure Study.	ADMIN	Valent U.S.A. Corporation	OWN	
171-4	(14C)-S-53482: Metabolism in Grape Vines	45375503	Valent U.S.A. Corporation	OWN	
171-4	14C-S-53482: Nature of the Residue in Soybeans	42884012	Valent U.S.A. Corporation	OWN	
171-4	Addendum To: Magnitude of the Residues of V-53482 in Soybeans and Soybean Processing Products: Validation of the Analytical Methods for Determining Residues of V-53482 in Soybeans and Soybean Process	42884017	Valent U.S.A. Corporation	OWN	
171-4	Independent Laboratory Validation of the Regulatory Enforcement Method for the Determination of V-53482 in Soybean Seeds.	42884018	Valent U.S.A. Corporation	OWN	
171-4	Magnitude of the Residue of V-53482 in Soybeans and Soybean Processing Products	42884016	Valent U.S.A. Corporation	OWN	

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Ingredient: FLUMIOXAZIN					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
171-4	Metabolism of 14C-S-53482 in Lactating Goats Definitive Study	42884013	Valent U.S.A. Corporation	OWN	
171-4	Metabolism of 14C-S-53482 in Laying Hens Definitive Study	42884014	Valent U.S.A. Corporation	OWN	
171-4	Validation of the Enforcement Residue Method of S-53482 in Soybean Matrices	42884015	Valent U.S.A. Corporation	OWN	
171-4(a)	14C-S-53482: Nature of the Residue in Corn FIFRA Subdivision O, Guideline 171-4 (a)(2)	45375504	Valent U.S.A. Corporation	OWN	
171-4(a)	Metabolism of [14C]S-53482 in Peanut	44013001	Valent U.S.A. Corporation	OWN	
171-04(a)	Metabolism of [14C]S-53482 in Peanut	44295051	Valent U.S.A. Corporation	OWN	
171-04(b)	Metabolism of [14C-(3,4,5,6-Tetrahydro) Phthalimide] S-53482 in Laying Hens	44295050	Valent U.S.A. Corporation	OWN	
171-4(c)	Independent Laboratory Validation of the Method for Quantitation of Flumioxazin in Soil	44295042	Valent U.S.A. Corporation	OWN	
171-4(c)	Response to EPA Method Validation of Residue Method RM-30A, "Determination of Flumioxazin Residues in Crops"	43935509	Valent U.S.A. Corporation	OWN	
171-04(d)	Magnitude of Residues of 14C-S-53482 in Chicken Egg Yolks and Whites and Chicken Muscle, Fat, Liver and Kidney by Residue Enforcement Method	44295053	Valent U.S.A. Corporation	OWN	
171-04(d)	Magnitude of Residues of S-53482 in Goat Milk, Liver, Kidneys and Muscle	44295052	Valent U.S.A. Corporation	OWN	
171-04(e) (860.1380) (860.1500) (860.1520)	Magnitude of the Residue of Flumioxazin and Its Metabolite 1-OH-HPA in Peanuts and Peanut Processing Commodities	44295054	Valent U.S.A. Corporation	OWN	

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Applicant's/ Registrant's Name &

VALENT U.S.A. CORPORATION
1600 RIVIERA AVENUE SUITE, WALNUT CREEK, CA 94596-8025

Product: **FLUMIOXAZIN TECHNICAL**Ingredient: **FLUMIOXAZIN**

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
171-04(e) (860.1380) (860.1500) (860.1520)	Magnitude of the Residue of Flumioxazin and its Metabolite 1-OH-HPA in Soybeans and Soybean Processing (6 Volumes)	44295056	Valent U.S.A. Corporation	OWN	
171-04(e) (860.1380) (860.1500) (860.1520)	Magnitude of the Residue of Flumioxazin in Peanuts	44295055	Valent U.S.A. Corporation	OWN	
171-4(k)	Magnitude of the Residues of V-53482 in Peanuts and Peanut Processing Commodities.	44013002	Valent U.S.A. Corporation	OWN	
171-04(m)	FDA Multiresidue Method (MRM) for Testing of Flumioxazin	44295057	Valent U.S.A. Corporation	OWN	
171-5 171-6	Summary of Data and Application Submitted to Support an Experimental Use Permit for V-53482 WP Herbicide for Non-Crop Use to Perform a Mixer\Loader and Applicator Exposure Study.	ADMIN	Valent U.S.A. Corporation	OWN	
171-5 171-6	Summary of Data and Application Submitted to Support an Experimental Use Permit for V-53482 WP Herbicide and Temporary Tolerance for Flumioxazin (V-53482)	ADMIN	Valent U.S.A. Corporation	OWN	
171-7	Dietary Exposure Estimates for FLUMIOXAZIN use on Soybeans	42884019	Valent U.S.A. Corporation	OWN	
171-7	Dietary Exposure Estimates for Flumioxazin Use on Soybeans and Peanuts	44295058	Valent U.S.A. Corporation	OWN	
171-7	Summary of Data and Application Submitted to Support an Experimental Use Permit for V-53482 WP Herbicide and Temporary Tolerance for Flumioxazin (V-53482)	ADMIN	Valent U.S.A. Corporation	OWN	

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Ingredient: FLUMIOXAZIN					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
171-7	Summary of Data and Application Submitted to Support an Experimental Use Permit for V-53482 WP Herbicide for Non-Crop Use to Perform a Mixer/ Loader and Applicator Exposure Study.	ADMIN	Valent U.S.A. Corporation	OWN	
202-1	Spray Drift Task Force 1991 Aerial Field Study in Mississippi	42565901	Spray Drift Task Force	OWN	
202-1	Spray Drift Task Force Model Sensitivity Analysis	42608401	Spray Drift Task Force	OWN	
202-1	Spray Drift Task Force: 1992 Aerial Field Study in Texas: Malathion - Diazinon	43254001	Spray Drift Task Force	OWN	
202-1	1992 Spray Drift Task Force Survey of Aerial Applicators	43485601	Spray Drift Task Force	OWN	
202-1	Spray Drift Task Force Interviews of Growers Who Use Orchard Airblast Sprayers	43485602	Spray Drift Task Force	OWN	
202-1	Measurement Techniques for Atomization Droplet Size Spectra Using Particle Size Analyzers in Wind Tunnels	43485603	Spray Drift Task Force	OWN	
202-1	Spray Drift Task Force: Collaborative Evaluation of SDTF Methods AM-003: AM-004 and AM-007 for the Determination of Diazinon, Malathion and Carbaryl on Alpha-cellulose Polyurethane Foam Plugs and Polyester String	43485604	Spray Drift Task Force	OWN	
202-1	Spray Drift Task Force 1992 Ground Field Study in Texas	43493801	Spray Drift Task Force	OWN	
202-1	Spray Drift Task Force 1993 Ground Field Study in Texas	43493802	Spray Drift Task Force	OWN	
202-1	Drift from Applications with Ground Hydraulic Sprayers: Integration and Summary of 1992 and 1993 Field Studies	43508001	Spray Drift Task Force	OWN	

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Ingredient: FLUMIOXAZIN					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
202-1	Spray Drift Task Force: 1993 Cool Season Aerial Field Study in Texas	43535801	Spray Drift Task Force	OWN	
202-1	Spray Drift Task Force: 1993 Hot Humid Aerial Field Study in Texas	43535802	Spray Drift Task Force	OWN	
201-1	Atomization Droplet Size Spectra for Spray Drift Formulations: 1992 Field Trial Conditions	43657601	Spray Drift Task Force	OWN	
202-1	Background and Rationale for Physical Property Determinations on Spray Drift Test Substances	43657602	Spray Drift Task Force	OWN	
202-1	Spray Drift Task Force: 1993 Hot Humid Aerial Field Study in Texas: Amended Final Report	43665401	Spray Drift Task Force	OWN	
202-1	Spray Drift Task Force: 1992 Aerial Field Study in Texas: Amendment to Final Report	43665402	Spray Drift Task Force	OWN	
201-1	Atomization Droplet Size Spectra for Spray Drift Formulations: 1991 Field Trial Conditions	43757801	Spray Drift Task Force	OWN	
201-1	Atomization Droplet Size Spectra for Spray Drift Test Substances: 1993 Field Trial Conditions	43757802	Spray Drift Task Force	OWN	
202-1	Spray Drift Task Force: Atomization Droplet Size Spectra of Critical Parameter Range Finding Substances	43766501	Spray Drift Task Force	OWN	
201-1	Spray Drift Task Force: Atomization Droplet Size Spectra for Selective Active Ingredients	43766502	Spray Drift Task Force	OWN	
202-1	String Collectors for Assessing Spray Drift	43766503	Spray Drift Task Force	OWN	
202-1	Spray Drift Task Force: 1993 Orchard Airblast Study in California	43766504	Spray Drift Task Force	OWN	
202-1	Spray Drift Task Force: 1994 Orchard Airblast Field Study on Pecans in Georgia	43781101	Spray Drift Task Force	OWN	
202-1	Drift from Applications with Aerial Sprayers: Integration and Summary of 1992 and 1993 Field Studies	43803501	Spray Drift Task Force	OWN	

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Ingredient: FLUMIOXAZIN					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
201-1	Dynamic Surface Tension Measurement of Spray Drift Test Substances	43832101	Spray Drift Task Force	OWN	
202-1	Spray Drift Task Force: 1994 Orchard Airblast Field Study on Citrus in Florida	43832102	Spray Drift Task Force	OWN	
201-1	Spray Drift Task Force Atomization Droplet Size Spectra of Sprinklers Used in Chemigation	43845501	Spray Drift Task Force	OWN	
202-1	Spray Drift Task Force 1994 Field Chemigation Study	43845901	Spray Drift Task Force	OWN	
202-1	Drift from Orchard Airblast Applications: Integration and Summary of 1993 and 1994 Field Trials	43925701	Spray Drift Task Force	OWN	
201-1	Spray Drift Task Force: Atomization Droplet Size Spectra for Airblast Sprayers	43953001	Spray Drift Task Force	OWN	
202-1	Spray Drift Task Force: Viscosity Measurements of Spray Drift Test Substance	43953002	Spray Drift Task Force	OWN	
202-1	A Proposed Screening Level Assessment Method For Aerial Spray Drift of Pesticides	44010201	Spray Drift Task Force	OWN	
202-1	Frozen Storage Stability of Malathion Diazinon Carbaryl and/or Acephate Residues in/on Alpha- Cellulose Polyurethane Foam Polyester String Water and Tank Mixes	44070001	Spray Drift Task Force	OWN	
201-1	Spray Drift Task Force Atomization Droplet Size Spectra for Nozzle and Physical Property Parameter Characterization	44100901	Spray Drift Task Force	OWN	
202-1	Spray Drift Task Force Droplet Evaporation of Spray Drift Test Substances	44134101	Spray Drift Task Force	OWN	
202-1	Spray Drift Task Force Field Testing Protocol and Techniques	44178701	Spray Drift Task Force	OWN	

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Applicant's/ Registrant's Name & VALENT U.S.A. CORPORATION 1600 RIVIERA AVENUE SUITE, WALNUT CREEK, CA 94596-8025			Product: FLUMIOXAZIN TECHNICAL		
Ingredient: FLUMIOXAZIN					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
202-1	Spray Drift Task Force Miscellaneous Nozzle Study	44310401	Spray Drift Task Force	OWN	
202-1	Nozzle and Spray Classification	44640801	Spray Drift Task Force	OWN	
202-1	Wind Tunnel Simulations of Aerial Sprays	44640901	Spray Drift Task Force	OWN	
202-1	Collection Efficiency of Spray Drift Samplers	44641001	Spray Drift Task Force	OWN	
202-1	Error Bars, Precision and Bias of Data for SDTF Aerial Field and Atomization Studies	44696901	Spray Drift Task Force	OWN	
202-1	Relationship Between Physical Properties and Atomization: Integration and Summary	44747401	Spray Drift Task Force	OWN	
202-1	Response by SDTF to Scientific Advisory Panel Review Issues for Aerial Studies and AgDrift Model	44763001	Spray Drift Task Force	OWN	
202-1	Amended Final Report for Study Spray Drift Task Force 1992 Ground Field Study in Texas (Malathion and Diazinon)	44878601	Spray Drift Task Force	OWN	
201-1	Atomization Droplet Size Spectra for Cotton/Soybean Herbicides	45375508	Valent U.S.A. Corporation	OWN	
231	Exposure Assessment for V-53482 WP Herbicide.	43901401	Valent U.S.A. Corporation	OWN	

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Ingredient: FLUMIOXAZIN					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.1550 830.1600 830.1620 830.1650 830.1670 830.1700 830.1750 830.1800 830.1900 830.6303 830.6314 830.7000 830.7300	U.S. EPA Product Properties Test Guidelines - Group A and Group B of Broadstar Herbicide	45375501	Valent U.S.A. Corporation	OWN	

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Ingredient: FLUMIOXAZIN					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.1550 830.1600 830.1620 830.1650 830.1670 830.1700 830.1750 830.1800 830.1900 830.6303 830.6314 830.6315 830.7000 830.7100 830.7300	U.S. EPA Product Properties Test Guidelines - Group A and Group B of Chateau Herbicide	45687101	Valent U.S.A. Corporation	OWN	

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Ingredient: FLUMIOXAZIN					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.1550 830.1600 830.1620 830.1650 830.1670 830.1700 830.1750 830.1800 830.1900 830.6303 830.6314 830.7000 830.7300	U.S. EPA Product Properties Test Guidelines - Group A and Group B of V-10070 38 WDG	45207801	Valent U.S.A. Corporation	OWN	
830.1550 830.1600 830.1620 830.1650 830.1670 830.1700 830.1750 830.1800 830.1900 830.6303 830.6314 830.7000 830.7300	U.S. EPA Product Properties Test Guidelines - Group A and Group B of V-10089 WDG	45207802	Valent U.S.A. Corporation	OWN	

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Ingredient: FLUMIOXAZIN					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.1650	Description of Formulation Process for VALOR WDG	44963701	Valent U.S.A. Corporation	OWN	
830.6302	Physical and Chemical Properties of V-10233 76 WDG	47702102	K-I Chemical U.S.A.	OWN	
830.6303					
830.6304					
830.6313					
830.6314					
830.6315					
830.6316					
830.6317					
830.6319					
830.6320					
830.6321					
830.7000					
830.7100					
830.7300					
830.7520					
830.1550 830.1600 830.1620 830.1650 830.1670 830.1700 830.1750 830.1800 830.1900	V-10364 Herbicide: Product Identity, Composition, and Analysis	48923801	Valent U.S.A. Corporation	OWN	

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Ingredient: FLUMIOXAZIN					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.6302 830.6303 830.6304 830.6313 830.6314 830.6315 830.6306 830.6309 830.6321 830.7000 830.7050 830.7100 830.7200 830.7220 830.7300 830.7370 830.7520 830.7550 830.7560 830.7570 830.7840 830.7860 830.4950	Physical and Chemical Properties of V-10364 Herbicide	48923802	Valent U.S.A. Corporation	OWN	
830.7050	UV/VIS Absorption of Flumioxazin	44295004	Valent U.S.A. Corporation	OWN	
830.7570	Flumioxazin and its Degradates 482-HA, APF, THPA, HPA, SAT-482-HA, and DAPF –Determination of n-Octanol/Water Partition Coefficient (POW) by High Performance Liquid Chromatography (HPLC)	49733401	Valent U.S.A. Corporation	OWN	
830.7840	Water Solubility of S-53482	49247001	Valent U.S.A. Corporation	OWN	
835.4300	(14C)-Flumioxazin: Degradation and Retention in Water-Sediment Systems	47761801	Valent U.S.A. Corporation	OWN	
835.6100	Terrestrial Field Soil Dissipation of Flumioxazin (Chateau WDG) on Bare Ground in Ontario, Canada	48131402	Valent U.S.A. Corporation	OWN	
835.6100	Terrestrial Field Soil Dissipation of Flumioxazin on Bare Soil in Nova Scotia	48131403	Valent U.S.A. Corporation	OWN	
835.6100	Terrestrial Field Soil Dissipation of Flumioxazin on Bare Soil in Washington	48131404	Valent U.S.A. Corporation	OWN	

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Ingredient: FLUMIOXAZIN					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
835.6100	Terrestrial Field Soil Dissipation of Chateau Herbicide (Flumioxazin) on Bare Ground in Illinois	48402402	Valent U.S.A. Corporation	OWN	
840.1200	AgDrift Tiered Assesment Model to Evaluate Spray Drift During Agricultural	46274901	Spray Drift Task Force	OWN	
850.1010	482-HA: Acute Toxicity to Water Fleas, Daphnia magna, Under Static-Renewal Conditions	49733402	Valent U.S.A. Corporation	OWN	
850.1010	Waiver Request – Flumioxazin: Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids	49132301	Valent U.S.A. Corporation	OWN	
850.1075	THPA-2Na: Acute Toxicity Test with Fathead Minnow (Pimephales promelas) Under Static-Renewal Conditions	49733405	Valent U.S.A. Corporation	OWN	
850.1075	APF: Acute Toxicity Test with Fathead Minnow (Pimephales promelas) Under Static-Renewal Conditions	49733404	Valent U.S.A. Corporation	OWN	
850.1075	482-HA: Acute Toxicity Test with Fathead Minnow (Pimephales promelas) Under Static-Renewal Conditions	49733403	Valent U.S.A. Corporation	OWN	
850.1400	Flumioxazin T.G. – Early Life-Stage Toxicity Test with Sheepshead Minnow, Cyprinodon variegatus	49733407	Valent U.S.A. Corporation	OWN	
850.1400	Flumioxazin T.G. - Early Life-Stage Toxicity Test with Fathead Minnow (Pimephales promelas) Under Both Standard and Enhanced Lighting	49733406	Valent U.S.A. Corporation	OWN	
850.1400	Waiver Request – Flumioxazin: Freshwater Fish Early Life-Stage Toxicity Test Under High Light Conditions	49132302	Valent U.S.A. Corporation	OWN	
850.1400	Waiver Request: Flumioxazin Technical Grade Fish Early-Life Stage Toxicity Test with Saltwater Species	49132303	Valent U.S.A. Corporation	OWN	
850.1500	Flumioxazin T.G. - Full Life-Cycle Toxicity Test with Fathead Minnow (Pimephales promelas) Following FIFRA Guideline 72-5 and OCSPD Draft Guideline 850.1500	49733408	Valent U.S.A. Corporation	OWN	

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Ingredient: FLUMIOXAZIN					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.1500	Waiver Request: Flumioxazin Technical Grade Fish Life-Cycle Toxicity Test with Freshwater Species	49132304	Valent U.S.A. Corporation	OWN	
850.6100	Independent Laboratory Validation of Valent U.S.A. Corporation's Residue Analytical Method for the Determination of Flumioxazin, THPA, and HPA in Soil (Method Number: RM-30S-1-1)	49657401	Valent U.S.A. Corporation	OWN	
850.SUPP	482-HA (Flumioxazin metabolite): Growth inhibition test with <i>Pseudokirchneriella subcapitata</i> (syn. <i>Selenastrum capricornutum</i>) under static conditions	49198801	Valent U.S.A. Corporation	OWN	
850.SUPP	482-HA (Flumioxazin metabolite): Growth inhibition test with the freshwater duckweed (<i>Lemna gibba</i>) under semi-static conditions	49198802	Valent U.S.A. Corporation	OWN	
850.SUPP	APF (Flumioxazin metabolite): Growth inhibition test with the freshwater duckweed (<i>Lemna gibba</i>) under semi-static conditions	49198804	Valent U.S.A. Corporation	OWN	
850.SUPP	APF (Flumioxazin metabolite): Growth inhibition test with <i>Pseudokirchneriella subcapitata</i> (syn. <i>Selenastrum capricornutum</i>) under static conditions	49198803	Valent U.S.A. Corporation	OWN	
850.SUPP	THPA-2Na (Flumioxazin metabolite): Growth inhibition test with the freshwater duckweed (<i>Lemna gibba</i>) under semi-static conditions	49198806	Valent U.S.A. Corporation	OWN	
850.SUPP	THPA-2Na (Flumioxazin metabolite): Growth inhibition test with <i>Pseudokirchneriella subcapitata</i> (syn. <i>Selenastrum capricornutum</i>) under static conditions	49198805	Valent U.S.A. Corporation	OWN	
860.Series	Flumioxazin: Magnitude of the Residue on Clover (Seed)		IR-4	PL	
860.Series	Flumioxazin: Magnitude of the Residue on Broccoli		IR-4	PL	
860.Series	Flumioxazin: Magnitude of the Residue on Caneberry (Blackberry)		IR-4	PL	

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Ingredient: FLUMIOXAZIN					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.Series	Flumioxazin: Magnitude of the Residue on Orange		IR-4	PL	
860.Series	Flumioxazin: Magnitude of the Residue on Grapefruit		IR-4	PL	
860.Series	Flumioxazin: Magnitude of the Residue on Lemon		IR-4	PL	
860.1300	Nature of the Residue: Metabolism of [Phenyl-14C]Flumioxazin and [THP-14C]Flumioxazin in Sugarcane	45888501	Valent U.S.A. Corporation	OWN	
860.1300	Nature of the Residues: Metabolism of [Phenyl-14C]Flumioxazin and [THP-14C]Flumioxazin in Apple	45888502	Valent U.S.A. Corporation	OWN	
860.1340	Determination of Flumioxazin Residues in Crops, Valent Method No. RM-30A-3	45914603	Valent U.S.A. Corporation	OWN	
860.1340	Amended Method: Determination of Flumioxazin and its APF and 482-HA Metabolites in Fish Tissue	47892901	Valent U.S.A. Corporation	OWN	
860.1340	Amended Method: Determination of Flumioxazin and its APF and 482-HA Metabolites in Fish Tissue	48051301	Valent U.S.A. Corporation	OWN	
860.1340	Fish Tissue Method for Flumioxazin 482-HA and APF	47892902	Valent U.S.A. Corporation	OWN	
860.1340(c)(6)	Independant Laboratory Validation of Method GPL-MTH-064 for the Determination of Flumioxazin and its APF and 482-HA Metabolites in Pond Water and Pond Sediment	47550603	Valent U.S.A. Corporation	OWN	
860.1340(c)(6)	Independant Laboratory Validation of Method GPL-MTH-066 for the Determination of Flumioxazin and its APF and 482-HA Metabolites in Fish	47550602	Valent U.S.A. Corporation	OWN	
860-1360	Assessment of Multi-Residue Methodology as Presented in Pesticide Analytical Manual (PAM) Volume I, for the Determination of 482-HA in Catfish Fillets	48402403	Valent U.S.A. Corporation	OWN	
860.1360	Assessment of Multi-Residue Methodology as Presented in Pesticide Analytical Manual (PAM) Volume I, for the Determination of APF in Catfish Fillets	48402404	Valent U.S.A. Corporation	OWN	

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Ingredient: FLUMIOXAZIN					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1400	Magnitude of Residue of Flumioxazin in Fish	47550604	Valent U.S.A. Corporation	OWN	
860.1400 860.1000	Aquatic Dissipation of Flumioxazin in Iowa and Florida During 2007, part 1 of 2	47550605	Valent U.S.A. Corporation	OWN	
860.1480	Magnitude of the Residues of Flumioxazin in Dairy Cattle Milk and Meat	46889603	Valent U.S.A. Corporation	OWN	
860.1500	Magnitude of the Residue of Flumioxazin on Almonds	45375505	Valent U.S.A. Corporation	OWN	
860.1500	Magnitude of the Residues of Flumioxazin in Cherries	46229404	Valent U.S.A. Corporation	OWN	
860.1500	Magnitude of the Residues of Flumioxazin in Peaches	46229405	Valent U.S.A. Corporation	OWN	
860.1500	Magnitude of the Residues of Flumioxazin in Pears	46229406	Valent U.S.A. Corporation	OWN	
860.1500	Magnitude of the Residues of Flumioxazin on Alfalfa	46889604	Valent U.S.A. Corporation	OWN	
860.1500	Magnitude of the Residues of Flumioxazin on Field Corn - Volume 1	47184801	Valent U.S.A. Corporation	OWN	
860.1500	Magnitude of the Residues of Flumioxazin on Field Corn - Volume 2	47184801	Valent U.S.A. Corporation	OWN	
860.1500	Flumioxazin: Magnitude of the Residue on Artichoke	48730701	IR-4	PL	
860.1500	Flumioxazin: Magnitude of the Residue on Cabbage	48730702	IR-4	PL	
860.1500	Flumioxazin: Magnitude of the Residue on Olive	48730703	IR-4	PL	

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Ingredient: FLUMIOXAZIN					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Flumioxazin: Magnitude of the Residue on Pomogranate	48730704	IR-4	PL	
860.1500	Flumioxazin: Magnitude of the Residue on Prickly Pear Cactus	48730705	IR-4	PL	
860.1500 860.1520	Magnitude of the Residue of Flumioxazin on Sugarcane And Its Processed Products	45125403	Valent U.S.A. Corporation	OWN	
860.1500 860.1520	Addendum to Magnitude of the Residue of Flumioxazin on Sugarcane and Its Processed Products	45244801	Valent U.S.A. Corporation	OWN	
860.1500 860.1520	Magnitude of the Residues of Flumioxazin in Apples and Apple Processing Products	46229403	Valent U.S.A. Corporation	OWN	
860.1500 860.1520	Magnitude of the Residues of Flumioxazin in Plums and It's Processed Product	46229407	Valent U.S.A. Corporation	OWN	
860.1500 860.1520	Magnitude of the Residue of Flumioxazin on Cotton And Its Processed Products	45375506	Valent U.S.A. Corporation	OWN	
860.1500 860.1520	Magnitude of the Residue of Flumioxazin on Grapes and Processed Products	45375507	Valent U.S.A. Corporation	OWN	
860.1500 860.1520	Magnitude of the Residue of Flumioxazin on Canola	48510501	Valent U.S.A. Corporation	OWN	
860.1500 860.1520	Magnitude of the Residue of Flumioxazin on Dry Peas	48510502	Valent U.S.A. Corporation	OWN	
860.1500 860.1520	Magnitude of the Residue of Flumioxazin on Dry Peas	48510503	Valent U.S.A. Corporation	OWN	
860.1500 860.1520	Magnitude of the Residue of Flumioxazin on Sunflower	48510504	Valent U.S.A. Corporation	OWN	

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DATA MATRIX

Date: January 24, 2017			EPA Reg no./ File Symbol: 59639-97	Total Pages = 50	
Applicant's/ Registrant's Name & VALENT U.S.A. CORPORATION 1600 RIVIERA AVENUE SUITE, WALNUT CREEK, CA 94596-8025			Product: FLUMIOXAZIN TECHNICAL		
Ingredient: FLUMIOXAZIN					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500 860.1520	Magnitude of the Residue of Flumioxazin on Wheat and in Wheat Processing Fractions	48510505	Valent U.S.A. Corporation	OWN	
860.1500 860.1520	Magnitude of the Residue of Flumioxazin on Wheat Following a Pre-Plant Application	48510506	Valent U.S.A. Corporation	OWN	
860.SUPP	Flumioxazin + Pyroxasulfone: Magnitude of the Residue on Grasses (Seed Crop)		IR-4	PL	
870.0000	An Oral (Gavage) Acute Neurotoxicity Study of Flumioxazin in Rats	48402405	Valent U.S.A. Corporation	OWN	
870.0000	A 90-Day Oral Dietary Neurotoxicity Study of Flumioxazin in Rats	48402406	Valent U.S.A. Corporation	OWN	
870.0000	An Oral (Gavage) Dose Range-Finding Acute Neurotoxicity Study of Flumioxazin in Rats	40402409	Valent U.S.A. Corporation	OWN	
870.1100	V-10070 37.5 WDG: Acute Oral Toxicity Study in Rats	45207803	Valent U.S.A. Corporation	OWN	
870.1100	An Acute Oral Toxicity Study in Rats with V-53482 4 FL	45687102	Valent U.S.A. Corporation	OWN	
870.1100	Acute Oral Toxicity Up And Down Procedure In Rats with V-10233 (VC 1763)	47702105	Valent U.S.A. Corporation	OWN	
870.1100	V-10266 Herbicide: Acute Oral Toxicity Up and Down Procedure in Rats	48923804	Valent U.S.A. Corporation	OWN	
870.1100 870.1200 870.1300 870.2400 870.2500 870.2600	Acute Toxicity Waiver Request for V-10070 38 WDG and V-10089 WDG	ADMIN	Valent U.S.A. Corporation	OWN	

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Ingredient: FLUMIOXAZIN					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.1100 870.1200 870.1300 870.2400 870.2500 870.2600	Acute Toxicology Bridging Request for V-10364 Herbicide	48923803	Valent U.S.A. Corporation	OWN	
870.1200	An Acute Dermal Toxicity in Rats with V-53482 4 FL	45687103	Valent U.S.A. Corporation	OWN	
870.1200	Acute Dermal Toxicity Study in Rats -- Limit Test with V-10233 (VC 1763)	47702106	K-I Chemical U.S.A.	OWN	
870.1200	V-10266 Herbicide: Acute Dermal Toxicity Study in Rats - Limit Test	48923805	Valent U.S.A. Corporation	OWN	
870.1300	An Acute Nose-Only Inhalation Study in Rats with V-53482 4 FL	45687104	Valent U.S.A. Corporation	OWN	
870.1300	Acute Inhalation Toxicity in Rats -- Limit Test with V-10233 (VC 1763)	47702107	K-I Chemical U.S.A.	OWN	
870.1300	V-10266 Herbicide: Acute Inhalation Toxicity Study in Rats	48923806	Valent U.S.A. Corporation	OWN	
870.2400	A Primary Eye Irritation Study in Rabbits with V-53482 4 FL	45687105	Valent U.S.A. Corporation	OWN	
870.2400	Acute Eye Irritation Study in Rabbits with V-10233 (VC 1763)	47702108	K-I Chemical U.S.A.	OWN	
870.2400	V-10266 Herbicide: Primary Eye Irritation Study in Rabbits	48923807	Valent U.S.A. Corporation	OWN	
870.2500	A Primary Skin Irritation Study in Rabbits with V-53482 4 FL	45687106	Valent U.S.A. Corporation	OWN	
870.2500	Primary Skin Irritation Study in Rabbits with V-10233 (VC 1763)	47702109	K-I Chemical U.S.A.	OWN	
870.2500	V-10266 Herbicide: Primary Skin Irritation Study in Rabbits	48923808	Valent U.S.A. Corporation	OWN	

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Ingredient: FLUMIOXAZIN					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.2600	A Dermal Sensitization Study in Guinea Pigs wit V-53482 4 FL Modified Buehler Design	45687107	Valent U.S.A. Corporation	OWN	
870.2600	Dermal Sensitization Study in Guinea Pigs (Buehler Method) with V-10233 (VC 1763)	47702110	K-I Chemical U.S.A.	OWN	
870.2600	V-10266 Herbicide: Local Lymph Node Assay (LLNA) in Mice	48923809	Valent U.S.A. Corporation	OWN	
870.3465	Waiver Request: Flumioxazin Technical Subchronic (28-Day) Rat Inhalation Study	48816901	Valent U.S.A. Corporation	OWN	
870.3700	Waiver Request: Flumioxazin Technical Prenatal Developmental Toxicity Study by Inhalation Route of Exposure	49132305	Valent U.S.A. Corporation	OWN	
870.3700A	Response to EPA HED February 20, 2014 Memorandum Entitled: "Flumioxazin: Response to new data submitted by the Sponsor to support a mode of action (MOA) for developmental toxicity of flumioxazin in rats and human relevance and response to developmental inhalation waiver request"	49357501	Valent U.S.A. Corporation	OWN	
870.7800	Flumioxazin - A 28-Day Dietary Dose Range-Finding Study in Sprague Dawley Rats for Immunotoxicity and Neurotoxicity Studies	48402407	Valent U.S.A. Corporation	OWN	
870.7800	Flumioxazin - A 28-Day Immunotoxicity Study in Female Sprague Dawley Rats	48402408	Valent U.S.A. Corporation	OWN	
870.SUPP	Biliary Excretion of [phenyl-U-14C]Flumioxazin in Female Rats	49247002	Valent U.S.A. Corporation	OWN	
870.SUPP	Chronological changes of morphology and population of circulating erythroblasts in rat embryos during yolk sac hemopoiesis	49247003	Valent U.S.A. Corporation	OWN	

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Ingredient: FLUMIOXAZIN					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.SUPP	Effects of flumioxazin on heme synthetic pathway and cell proliferation in K562 cells	49247004	Valent U.S.A. Corporation	OWN	
870.SUPP	Effects of metabolites of flumioxazin on heme synthetic pathway and cell proliferation in K562 cells.	49247005	Valent U.S.A. Corporation	OWN	
870.SUPP	Inhibition of Protoporphyrinogen Oxidase Activity by S-53482 and Its Major Metabolites, 3-OH S-53482, 4-OH S-53482 and APF in Rat Liver Mitochondria	49247006	Valent U.S.A. Corporation	OWN	
870.SUPP	Pharmacokinetics of 14C-Flumioxazin in Pregnant Rats and Pregnant Rabbits Mter Repeated Oral Administration	49247007	Valent U.S.A. Corporation	OWN	
870.SUPP	Physiologically Based Pharmacokinetic Modeling of Flumioxazin in Rats and Humans	49247008	Valent U.S.A. Corporation	OWN	
870.SUPP	Species difference in protoporphyrin IX accumulation induced by flumioxazin in cryopreserved hepatocytes among rat, rabbit, monkey and human	49247009	Valent U.S.A. Corporation	OWN	
870.SUPP	An update of a discussion on human relevance of the developmental effects induced by flumioxazin in rats	49247010	Valent U.S.A. Corporation	OWN	
870.SUPP	Additional study to evaluate the potential of flumioxazin to cause foetal anaemia at developmentally toxic dose in rats	49615801	Valent U.S.A. Corporation	OWN	
870.SUPP	Comparative effects of flumioxazin and dihydroartemisinin on the heme synthetic pathway and cell proliferation in human CD36+ cells	49615802	Valent U.S.A. Corporation	OWN	
870.SUPP	Comparative effects of flumioxazin and dihydroartemisinin on the heme synthetic pathway and cell proliferation in K562 cells	49615803	Valent U.S.A. Corporation	OWN	
870.SUPP	Comparative effects of flumioxazin and dihydroartemisinin on the heme synthetic pathway and cell proliferation in rat erythroleukemia cells	49615804	Valent U.S.A. Corporation	OWN	

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Ingredient: FLUMIOXAZIN					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.SUPP	Inhibition of Protoporphyrinogen Oxidase Activity by Flumioxazin and Its Major Metabolites, 3-OH Flumioxazin, 4-OH Flumioxazin and APF in Human Liver Mitochondria	49615805	Valent U.S.A. Corporation	OWN	
875 Series	Data Analysis and Interpretations of: Omite 30W Worker Re-entry Study on California Grapes and Omite 30W Dislodgeable and Total Residues on Grape Foliage, Grape Cane Turning	40975304 40975302	Agricultural Reentry Task Force (ARTF)	OWN	
875.Series	Data Analysis and Interpretations of: Omite® 30W on Peaches – Worker Reentry and Propargite Dislodgeable and Total Residues on Peach and Nectarine Foliage, Peach Harvesting	40975308 40975307	Agricultural Reentry Task Force (ARTF)	OWN	
875 Series	Determination of Dermal & Inhalation exposure to Workers During On-Farm Application of a Dry Hopper Box Pesticide Treatment to Seed, & Planting of Treated Seed / using Orthene 75 S Soluble Powder	46634103	Agricultural Handlers Exposure Task Force (AHETF)	OWN	
875 Series – Part A	Summary of Exposure Data for all Mixer/Loader/Applicator Studies Conducted or Purchased by the ORETF: Professional Lawn Care Operators Applying Pesticides to Residential Turf and Homeowners Applying Pesticides to Residential Turf, Home Gardens, & Ornamental Plants	45663701	Outdoor Residential Exposure Task Force (ORETF)	OWN	
875.1100 875.1300	Carbaryl Mixer/Loader/Applicator Exposure Study during Application of RP-2 Liquid (21%), Sevin® Ready To Use Insect Spray or Sevin® 10 Dust to Home Garden Vegetables	44459801	Outdoor Residential Exposure Task Force (ORETF)	OWN	
875.1100 875.1300	Carbaryl Mixer/Loader/Applicator Exposure Study During Application of RP-2 Liquid (21%) to Fruit Trees & Ornamental Plants	44518501	Outdoor Residential Exposure Task Force (ORETF)	OWN	

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Ingredient: FLUMIOXAZIN					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
875.1100 875.1300	Integrated Report for Evaluation of Potential Exposures to Homeowners & Professional Lawn Care Operators Mixing, Loading, & Applying Granular & Liquid Pesticides to Residential Lawns	44972201	Outdoor Residential Exposure Task Force (ORETF)	OWN	
875.1100 875.1300	Outdoor Residential Pesticide Use and Usage Survey & National Gardening Association Survey	44972202	Outdoor Residential Exposure Task Force (ORETF)	OWN	
875.1100 875.1300	Handlers Exposure Assessment and Potential Risk of Valor™ WDG Herbicide Applied to Sugarcane	45125402	Valent U.S.A. Corporation	OWN	
875.1100 875.1300	Handlers Exposure Assessment and Potential Risk of Valor WDG Herbicide Applied By Air in The Burndown Program in Cotton, Soybean and Sugarcane	45375509	Valent U.S.A. Corporation	OWN	
875.1100 875.1300	Refining Estimates of potential Hand-to-Mouth-Based Incidental Ingestion Exposure: Frequency of Hand to Mouth Contact	46042401	Outdoor Residential Exposure Task Force (ORETF)	OWN	
875.1100 875.1300	Refining Hand to Mouth Exposure Estimates: Finger Surface Area Contacting Mouth	46042402	Outdoor Residential Exposure Task Force (ORETF)	OWN	
875.1100 875.1300	The ORETF Algorithm for Defining the Relationship of Transferable Turf Residues to Post- Application Dermal Exposure	46190501	Outdoor Residential Exposure Task Force (ORETF)	OWN	
875.1100 875.1300	Determination of Dermal and Inhalation Exposure to Workers During Application of a Liquid Pesticide Product by Open Cab Airblast Application to Orchard Crops	46448201	Agricultural Handlers Exposure Task Force (AHETF)	OWN	
875.1100 875.1300	Validation of AHETF Method AHETF-AM-006, Determination of Carbaryl in Sock Samples"	46448202	Agricultural Handlers Exposure Task Force (AHETF)	OWN	

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Ingredient: FLUMIOXAZIN					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
875.1100 875.1300	Validation of Methods for the Analysis of Exposure Matrices for Acephate	46634101	Agricultural Handlers Exposure Task Force (AHETF)	OWN	
875.1100 875.1300	Determination of Dermal and Inhalation Exposure to Workers During Application of a Liquid Pesticide Product by Open Cab Airblast Application to Orchard Crops - Amended Report	46634102	Agricultural Handlers Exposure Task Force (AHETF)	OWN	
875.1100 875.1300	Determination of Dermal and Inhalation Exposure to Workers During On-Farm Application of a Dry Hopper Box Pesticide Treatment to Seed, & Planting of Treated Seed	46634103	Agricultural Handlers Exposure Task Force (AHETF)	OWN	
875.1100 875.1300	Determination of Dermal and Inhalation Exposure to Workers During Closed-System Loading and ULV Application of a Liquid Pesticide Product to Cotton	46634105	Agricultural Handlers Exposure Task Force (AHETF)	OWN	
875.1100 875.1300	Validation of a Method for the Analysis of Malathion & Diazinon in Sock Matrix	46634106	Agricultural Handlers Exposure Task Force (AHETF)	OWN	
875.2100	Flumioxazin: Transferrable Residue Dissipation on Dormant Bermudagrass Turf in Southern Georgia	49733410	Valent U.S.A. Corporation	OWN	
875.2100	Flumioxazin: Transferrable Residue Dissipation on Dormant Bermudagrass Turf in Northern Georgia	49733409	Valent U.S.A. Corporation	OWN	
875.2100	Waiver Request: SureGuard Herbicide Turf Transferable Residue Study	48131401	Valent U.S.A. Corporation	OWN	
875.2100	Waiver Request: Flumioxazin Foliar Dislodgeable Residue Study	49132306	Valent U.S.A. Corporation	OWN	

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Ingredient: FLUMIOXAZIN					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
875.2400	Exposure of Professional Lawn Care Workers During the Mixing and Loading of Dry and Liquid Formulations and the Liquid Application of Turf Pesticides Utilizing a Surrogate Compound	44972203	Outdoor Residential Exposure Task Force (ORETF)	OWN	
875.2400	Exposure of Professional Lawn Care Workers During the Mixing, Loading, and Application of Granular Turf Pesticides Utilizing a Surrogate Compound	44972203	Outdoor Residential Exposure Task Force (ORETF)	OWN	
875.2400	Methodology for Determining Post-Application Dermal Exposure to Pesticide Residues on Turf	45262902	Outdoor Residential Exposure Task Force (ORETF)	OWN	
875.2400 875.2500	Agricultural Reentry Task Force Transfer Coefficient Database: A Generic Tool for Estimating Pesticide Exposure to Agricultural Workers Who Re-Enter Treated Crops	46040301	Agricultural Reentry Task Force (ARTF)	OWN	
875.2400 875.2500	Data Analysis and Interpretations of: Worker Exposure to Residues of Captan 50 WP During Peach Harvest in California and Captan 50 WP Dislodgeable Residue Study on California Peaches; Peach Harvesting	40966501 40988604	Agricultural Reentry Task Force (ARTF)	OWN	
875.2400 875.2500	Data Analysis and Interpretations of: Worker Exposure to Residues of Captan 50 WP During Strawberry Harvest in California and Captan 50 WP Dislodgeable Residue Study on California Strawberries; Strawberry Harvesting	40966502 40988601	Agricultural Reentry Task Force (ARTF)	OWN	
875.2400 875.2500	Data Analysis and Interpretations of: Worker Exposure to Residues of Captan 50 WP During Tomato Harvest in California and Captan 50 WP Dislodgeable Residue Study on California Tomatoes; Tomato Harvesting	40966503 40988602	Agricultural Reentry Task Force (ARTF)	OWN	

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Ingredient: FLUMIOXAZIN					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
875.2400 875.2500	Data Analysis and Interpretations of: Worker Exposure to Residues of Captan® 50 WP During Grape Harvest in California and Captan 50 WP Dislodgeable Residue Study on California Grapes; Grape Harvesting	40985601 40988603	Agricultural Reentry Task Force (ARTF)	OWN	
875.2400 875.2500	Data Analysis and Interpretations of: OMITE 6E on Almonds - Worker Reentry Study & OMITE 6E on Almonds – Foliar Dislodgeable; Almond Harvesting	41848604 41848603 41848609	Agricultural Reentry Task Force (ARTF)	OWN	
875.2400 875.2500	Data Analysis and Interpretations of: Evaluation of Reentry Exposure Following Application of Bayleton® Fungicide to an Apple Orchard; Apple Thinning	42428101	Agricultural Reentry Task Force (ARTF)	OWN	
875.2400 875.2500	Data Analysis and Interpretations of: OMITE on Cotton: Weeder Reentry Study	42689103	Agricultural Reentry Task Force (ARTF)	OWN	
875.2400 875.2500	Data Analysis and Interpretations of: OMITE on Beans: Weeder Reentry Study; Bean Weeding	42689104	Agricultural Reentry Task Force (ARTF)	OWN	
875.2400 875.2500	Data Analysis and Interpretations of: Evaluation of Reentry Exposure to Tribufos During Harvesting of Cotton Treated with DEF 6; Cotton Harvesting	42701601 45726302	Agricultural Reentry Task Force (ARTF)	OWN	
875.2400 875.2500	Data Analysis and Interpretations of: Worker Re-entry Exposure While Harvesting Stone Fruit Treated with Ronilan DF Fungicide in California; Dissipation of Dislodgeable Foliar Residues of Vinclozolin (Ronilan DF Fungicide) Applied to Orchards – California and Georgia Sites; Peach Harvesting	42830002 42830001	Agricultural Reentry Task Force (ARTF)	OWN	

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Ingredient: FLUMIOXAZIN					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
875.2400 875.2500	Data Analysis and Interpretations of: Worker Reentry Exposure to Profenofos in Cotton Treated with Curacron 8E; Cotton Hoeing	42851302	Agricultural Reentry Task Force (ARTF)	OWN	
875.2400 875.2500	Data Analysis and Interpretations of: Lorsban 4E & 50W Insecticides: Assessment of Chlorpyrifos Exposures to Applicators, Mixer/Loaders, and Re-entry Personnel During and Following Application to Low Crops; Cauliflower Scouting	42974501	Agricultural Reentry Task Force (ARTF)	OWN	
875.2400 875.2500	Data Analysis and Interpretations of: Worker Re-entry Exposure While Harvesting Strawberries Treated with Ronilan DF Fungicide in California & Dissipation of Dislodgeable Foliar Residues of Vinclozolin (Ronilan DF Fungicide) Applied to Strawberries; Strawberry Harvesting	43013003 43013004	Agricultural Reentry Task Force (ARTF)	OWN	
875.2400 875.2500	Data Analysis and Interpretations of: Worker Reentry Exposure While Harvesting Grapes Treated with Dibrom 8 Emulsive and Dissipation of Dislodgeable Foliar Residues of Dibrom 8 Emulsive Applied to Grapes	43223907 43223904	Agricultural Reentry Task Force (ARTF)	OWN	
875.2400 875.2500	Data Analysis and Interpretations of: OMITE 30W on Peaches: Propper Reentry Study	43297602	Agricultural Reentry Task Force (ARTF)	OWN	
875.2400 875.2500	Agricultural Worker Crop Contact from Reentry Activities Performed in the United States and Canada: Grower Results	44802601	Agricultural Reentry Task Force (ARTF)	OWN	
875.2400 875.2500	Validation of Methods for the Analysis of Worker Exposure and Reentry Matrices for Diazinon and Malathion	44972204	Agricultural Reentry Task Force (ARTF)	OWN	

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DATA MATRIX

Date: January 24, 2017			EPA Reg no./ File Symbol: 59639-97	Total Pages = 50	
Applicant's/ Registrant's Name & VALENT U.S.A. CORPORATION 1600 RIVIERA AVENUE SUITE, WALNUT CREEK, CA 94596-8025			Product: FLUMIOXAZIN TECHNICAL		
Ingredient: FLUMIOXAZIN					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
875.2400 875.2500	Determination of the Field Recovery & Stability of Diazinon & Malathion for Use in ARTF Reentry Exposure Studies	44972205	Agricultural Reentry Task Force (ARTF)	OWN	
875.2400 875.2500	Determination of Dermal and Inhalation Exposure to Reentry Workers During Scouting in Sweet Corn	45005904	Agricultural Reentry Task Force (ARTF)	OWN	
875.2400 875.2500	Determination of Dermal and Inhalation Exposure from Chlorothalonil to Reentry Workers During Harvesting in Sweet Corn	45005905	Agricultural Reentry Task Force (ARTF)	OWN	
875.2400 875.2500	Determination of Dermal & Inhalation Exposure to Reentry Workers During Scouting in Cauliflower	45005906	Agricultural Reentry Task Force (ARTF)	OWN	
875.2400 875.2500	Determination of Dermal and Inhalation Exposure to Reentry Workers During Harvesting in Cauliflower	45005907	Agricultural Reentry Task Force (ARTF)	OWN	
875.2400 875.2500	Determination of Dermal and Inhalation Exposure to Reentry Workers During Scouting in Dry Peas	45005908	Agricultural Reentry Task Force (ARTF)	OWN	
875.2400 875.2500	Determination of Dermal and Inhalation Exposure to Reentry Workers During Scouting in Sunflower	45005909	Agricultural Reentry Task Force (ARTF)	OWN	
875.2400 875.2500	Determination of Dermal and Inhalation Exposure to Reentry Workers During Scouting in Grapes	45005910	Agricultural Reentry Task Force (ARTF)	OWN	
875.2400 875.2500	Determination of Dermal and Inhalation Exposure to Reentry Workers During Harvesting in Tobacco	45005911	Agricultural Reentry Task Force (ARTF)	OWN	

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Ingredient: FLUMIOXAZIN					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
875.2400 875.2500	Determination of Dermal and Inhalation Exposure to Reentry Workers During Hand-Harvesting in Blackberries (& reissue)	45138201 46405901	Agricultural Reentry Task Force (ARTF)	OWN	
875.2400 875.2500	Determination of Dermal and Inhalation Exposure to Reentry Workers During Harvesting in Apples	45138202	Agricultural Reentry Task Force (ARTF)	OWN	
875.2400 875.2500	Determination of Dermal and Inhalation Exposure to Reentry Workers During Harvesting in Oranges	45175101	Agricultural Reentry Task Force (ARTF)	OWN	
875.2400 875.2500	Determination of Dermal and Inhalation Exposure to Reentry Workers During Pruning of Olive Trees	45175102	Agricultural Reentry Task Force (ARTF)	OWN	
875.2400 875.2500	Agronomic & Statistical Clustering of Agricultural Reentry transfer Coefficients (Addendum to Scope Survey MRID #44802601)	45175105	Agricultural Reentry Task Force (ARTF)	OWN	
875.2400 875.2500	Determination of Dermal and Inhalation Exposure to Reentry Workers During Weeding in Cabbage	45191701	Agricultural Reentry Task Force (ARTF)	OWN	
875.2400 875.2500	Determination of Dermal and Inhalation Exposure to Reentry Workers During Hand Line Irrigation in Potato (& amendment)	45224801 45726301	Agricultural Reentry Task Force (ARTF)	OWN	
875.2400 875.2100	Evaluation of Transferable Turf Residue Data From Studies Conducted or Purchased by the ORETF	45262901	Outdoor Residential Exposure Task Force (ORETF)	OWN	
875.2400 875.2500	Determination of Dermal and Inhalation Exposure to Reentry Workers During Chrysanthemum Pinching in a Greenhouse	45344501	Agricultural Reentry Task Force (ARTF)	OWN	

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Ingredient: FLUMIOXAZIN					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
875.2400 875.2500	Determination of Dermal and Inhalation Exposure to Reentry Workers During Harvesting in Juice Oranges	45432301	Agricultural Reentry Task Force (ARTF)	OWN	
875.2400 875.2500	Determination of Dermal and Inhalation Exposure to Reentry Workers During Harvesting in Juice Grapefruit	45432302	Agricultural Reentry Task Force (ARTF)	OWN	
875.2400 875.2500	Determination of Dermal and Inhalation Exposure to Reentry Workers During Harvesting in Sod	45432303	Agricultural Reentry Task Force (ARTF)	OWN	
875.2400 875.2500	Determination of Dermal and Inhalation Exposure to Reentry Workers During Pruning in Nursery Stock	45469501	Agricultural Reentry Task Force (ARTF)	OWN	
875.2400 875.2500	Determination of Dermal and Inhalation Exposure to Reentry Workers During Harvesting in Nursery Stock	45469502	Agricultural Reentry Task Force (ARTF)	OWN	
875.2400 875.2500	Determination of Dermal and Inhalation Exposure to Reentry Workers During Harvesting in Cucumbers	45480301	Agricultural Reentry Task Force (ARTF)	OWN	
875.2400 875.2500	Determination of Dermal and Inhalation Exposure to Reentry Workers During Hand-Pruning in Apples	45480302	Agricultural Reentry Task Force (ARTF)	OWN	
875.2400 875.2500	Determination of Dermal and Inhalation Exposure to Reentry Workers During Harvesting in Wine Grapes	45491901	Agricultural Reentry Task Force (ARTF)	OWN	
875.2400 875.2500	Determination of Dermal and Inhalation Exposure to Reentry Workers During Harvesting in Summer Squash	45491902	Agricultural Reentry Task Force (ARTF)	OWN	

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Ingredient: FLUMIOXAZIN					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
875.2400 875.2500	Peer Review Summary Report & ARTF Response to Peer Review Comments	45491903	Agricultural Reentry Task Force (ARTF)	OWN	
875.2400 875.2500	ARTF Peer Review Record	45491904	Agricultural Reentry Task Force (ARTF)	OWN	
875.2400 875.2500	Technical Issues and Procedures for Handling Data from Agricultural Reentry Studies Purchased by ARTF	45491905	Agricultural Reentry Task Force (ARTF)	OWN	
875.2400 875.2500	Determination of Dermal and Inhalation Exposure to Reentry Workers During Maintenance Activities on Golf Courses	45530101	Agricultural Reentry Task Force (ARTF)	OWN	
875.2400 875.2500	Determination of Dermal and Inhalation Exposure to Reentry Workers During Harvesting in Cabbage	45530102	Agricultural Reentry Task Force (ARTF)	OWN	
875.2400 875.2500	Determination of Dermal and Inhalation Exposure to Reentry Workers During Tying in Tomatoes	45530103	Agricultural Reentry Task Force (ARTF)	OWN	
875.2400 875.2500	Evaluation of Dislodgeable Foliar Residue Techniques, Statistical Distributions, & Initial Residues	45574001	Agricultural Reentry Task Force (ARTF)	OWN	
875.2400 875.2500	Agricultural Reentry Task Force Transfer Coefficient Database: A Summary of its Development and Use	46040302	Agricultural Reentry Task Force (ARTF)	OWN	
875.2400 875.2500	Determination of Dermal and Inhalation Exposure to Reentry Workers During Maintenance Activities in Golf Courses	46734001	Agricultural Reentry Task Force (ARTF)	OWN	

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Ingredient: FLUMIOXAZIN					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
875.2400 875.2500	Revised/Reissued: Agricultural Reentry Task Force Transfer Coefficient Database: A Summary of its Development and Use (original MRID: 46040302)	46734002	Agricultural Reentry Task Force (ARTF)	OWN	
875.2400 875.2500	Determination of Dermal and Inhalation Exposure to Reentry Workers During Harvesting in Greenhouse Grown Cut Flowers (& amended report)	46789301 46513901	Agricultural Reentry Task Force (ARTF)	OWN	
875.2400 875.2500	Penetration of Clothing by Dislodgeable Foliar Residues of Pesticides During Agricultural Occupational Reentry	46789302	Agricultural Reentry Task Force (ARTF)	OWN	
SUPP	Acute and Chronic Dietary (Food and Drinking Water) Exposure Analyses for Flumioxazin in/on Tuberous and Corm Vegetables, Fruiting Vegetables, Cucurbit Vegetables, Bulb Vegetables, Pome Fruits, Stone Fruits, Bush Berries, Tree Nuts, Soybeans, Dried Shelled Peas and Beans, Cottonseed Oil, Grape, Peanut, Mint, Strawberry, Asparagus, Sugarcane, Pistachio, Meat, Poultry, and Dairy Products	46889602	Valent U.S.A. Corporation	OWN	
NONE	The Pharmacokinetics of [14C]S-53482 in the Rat	49687201	Valent U.S.A. Corporation	OWN	
NONE	Determination of S-53482 Content in Flumioxazin T.G.	49682301	Valent U.S.A. Corporation	OWN	
NONE	Stability Test of Flumioxazin in 0.5% Methyl Cellulose Suspension	49682302	Valent U.S.A. Corporation	OWN	
NONE	Summary of Additional Data Submitted to Support an Experimental Use Permit for V-53482 WP Herbicide and Temporary Tolerance for Flumioxazin.	43901400 43901401	Valent U.S.A. Corporation	OWN	

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Ingredient: FLUMIOXAZIN					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
NONE	Flumioxazin -- Supplemental Information: Statutory Findings and Information Summaries to Comply with the Food Quality Protection Act of 1996 in Support of Registration and Tolerances on Soybeans, Peanuts and Sugarcane	45125401	Valent U.S.A. Corporation	OWN	
NONE	Rebuttal to the EPA Data Evaluation Report for Soil Dissipation Studies Follow Up Report	46163701	Valent U.S.A. Corporation	OWN	
NONE	Tier One Chronic and Acute Dietary Exposure Analyses for Flumioxazin on Peanuts, Soybeans, and Sugarcane	45125404	Valent U.S.A. Corporation	OWN	
NONE	Inhibition of Protoporphyrinogen Oxidase Activity by Flumioxazin in Rat, Mouse and Dog Liver	45142301	Valent U.S.A. Corporation	OWN	
NONE	Mechanism of Interspecies Differences in Hematotoxicity of Flumioxazin by Dietary Administration in Rats and Mice	45142302	Valent U.S.A. Corporation	OWN	
NONE	Mechanism of Interspecies Differences in Hematotoxicity of Flumioxazin by Oral Administration in Dogs	45142303	Valent U.S.A. Corporation	OWN	
NONE	Chronic and Acute Dietary Exposure Analyses: Flumioxazin	45375510	Valent U.S.A. Corporation	OWN	
NONE	Flumioxazin - Supplemental Information: Statutory Findings and Information Summaries To Comply With The Food Quality Protection Act Of 1996 In Support Of Registration and Tolerances on Almonds, Cotton, Grapes, Peanuts, Soybeans, And Sugarcane	45375511	Valent U.S.A. Corporation	OWN	
NONE	Henry's Law Constant for Flumioxazin	45375512	Valent U.S.A. Corporation	OWN	
NONE	Biliary Excretion of [14C]S-53482 in the Rat	45920701	Valent U.S.A. Corporation	OWN	

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Ingredient: FLUMIOXAZIN					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
NONE	Flumioxazin - Summary of Data and Tolerance Petition Supporting Use on Fruit, Pome, Crop Group 11 and Fruit, Stone, Crop Group 12 Amendment to Registration of Valor Herbicide and Chateau WDG Herbicide to Add Pome Fruit and Stone Fruit to the Labels	46229401	Valent U.S.A. Corporation	OWN	
NONE	Supplemental Information: Statutory Findings and Information Summaries to Comply with The Food Quality Protection Act of 1996 In Support of Registration and Tolerances on Pome Fruit and Stone Fruit	46229402	Valent U.S.A. Corporation	OWN	
NONE	Acute and Chronic Dietary Exposure Analyses for Flumioxazin	46229408	Valent U.S.A. Corporation	OWN	
NONE	Flumioxazin - Summary of Data and Application to Support an Experimental Use Permit for Use of Flumioxazin 51 WDG for the Control of Aquatic Weeds	46683301	Valent U.S.A. Corporation	OWN	
NONE	Flumioxazin - Summary of Data and Tolerance Petition Supporting Use on Alfalfa	46889601	Valent U.S.A. Corporation	OWN	
NONE	Generic Problem Formulation for California Red-Legged Frog	47164601	CropLife America	OWN	
NONE	Data and Methodology Used for Spatial Analysis of California Red Legged Frog Observations and Proximate Land Cover Characteristics	47164602	CropLife America	OWN	
NONE	GeoSTAC - GEOSpatial Tools and ACcess - Project Submission	47475301	CropLife America	OWN	
NONE	GeoSTAC - GEOSpatial Tools and ACcess - QA/QC Report and Response	47475302	CropLife America	OWN	
NONE	Estimated Drinking Water Concentrations for the Proposed Aquatic Uses of the Herbicide Flumioxazin	47550601	Valent U.S.A. Corporation	OWN	

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Ingredient: FLUMIOXAZIN					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
NONE	A Review of Simulation Models for Evaluating the Effectiveness of Buffers in Reducing Pesticide Exposure	47773401	CropLife America	OWN	
NONE	Effects of flumioxazin on heme synthetic pathway and cell proliferation in human CD36+ cells.	49198807	Valent U.S.A. Corporation	OWN	
NONE	Effects of flumioxazin on heme synthetic pathway and cell proliferation in rat erythroleukemia cells.	49198808	Valent U.S.A. Corporation	OWN	
NONE	Summary of Data Submitted and Application to Support an Experimental Use Permit for V-53482 WP Herbicide and Temporary Tolerance for Flumioxazin (V-53482)	ADMIN	Valent U.S.A. Corporation	OWN	
NONE	Summary of Data Submitted for Flumioxazin Technical and V-53482 WP and WDG Herbicides Registrations and Flumioxazin Tolerance Petition	ADMIN	Valent U.S.A. Corporation	OWN	
NONE	Reduced-Risk Petition - V-53482 WP and WDG Herbicides	ADMIN	Valent U.S.A. Corporation	OWN	
NONE	Food Quality Protection Act (FQPA) Supplemental Information Document to Support the Registrations of Flumioxazin Technical and V-53482 WP and WDG Herbicides	ADMIN	Valent U.S.A. Corporation	OWN	
NONE	Flumioxazin--Summary of Data and Tolerance Petition Supporting Use on Sugarcane and Registration of Valor™ WDG Herbicide	ADMIN	Valent U.S.A. Corporation	OWN	

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Ingredient: FLUMIOXAZIN					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
NONE	Flumioxazin - Summary of Data and Tolerance Petition Supporting: Use on Cotton, Almonds, Grapes, Christmas Trees, Deciduous Trees and Container and Field Grown Ornamental Plants; Registration of Chateau WDG Herbicide on Almonds and Grapes, SureGuard Herbicide on Christmas and Deciduous Trees, and Broadstar Herbicide on Container and Field Grown Ornamental Plants; Amendment To Registration of Valor(TM) Herbicide To Add Cotton To The Label	ADMIN	Valent U.S.A. Corporation	OWN	
NONE	Rebuttal to EPA Data Evaluation Report for Soil Dissipation Studies	ADMIN	Valent U.S.A. Corporation	OWN	
NONE	Flumioxazin - Summary of Data and Tolerance Petition Supporting Use on Field Corn	ADMIN	Valent U.S.A. Corporation	OWN	
NONE	Flumioxazin: Petition for Tolerances in/on Fish Supporting the Proposed Use as an Aquatic Herbicide	ADMIN	Valent U.S.A. Corporation	OWN	
NONE	Flumioxazin - Summary of Data and Tolerance Petition Supporting Use in or on Soybean Forage and Soybean Hay	ADMIN	Valent U.S.A. Corporation	OWN	

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VALENT U.S.A. CORPORATION
1600 RIVIERA AVENUE SUITE, WALNUT CREEK, CA 94596-8025

Product: **FLUMIOXAZIN TECHNICAL**Ingredient: **FLUMIOXAZIN**

Guideline Reference Number

Guideline Study Name

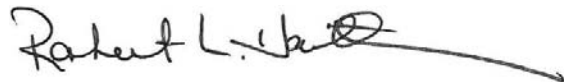
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Status

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Signature



Name and Title

Robert L. Hamilton, Ph.D. /
Senior Regulatory Scientist
Registration and Regulatory Affairs

Date

January 24, 2017